

**Commonwealth of Kentucky  
Division for Air Quality**

**PERMIT APPLICATION SUMMARY FORM**

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GENERAL INFORMATION:

Name:	Quebecor World, Inc.
Address:	100 U.S. Bypass 60 Versailles, Kentucky 40384-1496
Date application received:	October 01, 2003
SIC/Source description:	4238, Commercial Book Printing and Binding
Source ID #:	21-239-00005
Source A.I. #:	4238
Activity #:	APE20040001
Permit number:	F-06-015

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
__Administrative	<input type="checkbox"/> Title V
__Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input checked="" type="checkbox"/> Operating
<input checked="" type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

#### EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)
PM/PM <sub>10</sub>	25.269	27.55/28.36
SO <sub>2</sub>	0.06	0.30
NO <sub>x</sub>	11.06	49.32
CO	6.09	44.74
VOC	7.23	< 90.0
Lead	--	--
Individual HAP	0.33	< 9.0
Combined HAPs	< 1	< 22.50

Actual emissions are from the Kentucky Division for Air Quality's 2005 Emissions Inventory report.

#### **SOURCE DESCRIPTION:**

An application for a Conditional Major operating permit renewal for Quebecor World, Inc. (Quebecor) for the operation of a book printing and binding plant, located at 100 U.S. Bypass 60, Versailles, Kentucky, was received by the Division on September 30, 2003.

Quebecor produces printed materials on 16 lithographic presses that have been installed at the facility between January 1968 and July 2005. Emissions from these 16 lithographic presses include Volatile Organic Compounds (VOC) and hazardous air pollutants (HAP). All emissions from the press operations are directed to one of the three existing thermal oxidizers. These control devices have been installed between August 1989 and September 2001. The VOC and HAP destruction efficiency for all three thermal oxidizers is assumed to be a minimum of 98%. Compliance demonstration stack testing conducted in the last five years confirms this destruction efficiency value.

The Standard Industrial Classification (SIC) Codes for this source are 2732, 2752, and 2789, *Commercial Book Printing and Binding*. Quebecor has accepted voluntary permit conditions to limit the facility's potential to emit (PTE) regulated pollutants below major source thresholds. Therefore, the source is subject to the provision of 401 KAR 52:030, *Federally enforceable permits for nonmajor sources*. This permit is the renewed issuance of the source's initial Conditional Major operating permit No. F-99-003, issued on March 31, 1999.

#### **EMISSIONS AND OPERATING CAPS DESCRIPTIONS:**

Woodford County is designated as attainment for all criteria pollutants. To preclude the applicability of 401 KAR 52:020, *Title V permits*, the following source-wide emission limits shall apply:

- a. Volatile organic compound (VOC) emissions: 90 tons per year;
- b. Combined hazardous air pollutant (HAP) emissions: 22.5 tons per year; and

c. Single hazardous air pollutants (HAPs) emissions: 9 tons per year.

Compliance with the above limits shall also preclude the applicability of 401 KAR 51:017, *Prevention of significant deterioration of air quality*. The permittee shall continue to use a control device (three (3) thermal oxidizers) in order to comply with the specified emission limits. Related enforceable monitoring, record keeping and reporting requirements are included in the permit. The potential to emit all other criteria pollutants will be less than 100 tons per year each. Compliance with the VOC limit shall make this source a synthetic minor source pursuant to 401 KAR 51:017, *Prevention of significant deterioration of air quality*. Compliance with these permit limits shall also make the requirements of 401 KAR 52:020, Title V permits, not applicable to this source.

**OPERATIONAL FLEXIBILITY:**

The primary thermal oxidizer for each lithographic press is as represented in the Table above under *Emission Point Number and Description*. As a backup system, the facility has created a cross connection between the two Geoenergy thermal oxidizers. This duct connection provides secondary control for the ten presses connected to these two control devices. In the unlikely event that a thermal oxidizer fails, the press on that unit would be diverted temporarily to the other control device. There is no alternate operating scenario for the REECO thermal oxidizer.